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EXAMINER MCLEOD, MARSHALL M				
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/662,715

Applicant(s)

DHARAMSHI, GAUTAM

Examiner

MARSHALL MCLEOD

Art Unit

2457

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 July 2010.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7, 9-23 and 25-31 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7, 9-23, 25-31 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/GS/US)
Paper No(s)/Mail Date _____

- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

1. Claims 1-7, 9-23 and 25-31 are pending in this application. Claims 8 and 24 have been cancelled. Furthermore, the examiner withdraws the prior 35 U.S.C. 112, second paragraph rejections.

Response to Arguments

2. Applicant's arguments filed 07/12/2010 have been fully considered but they are not persuasive. Furthermore, the examiner's newly crafted and issued rejection addresses applicant's arguments in regards to the amendments made to the claims herein.

3. With respect to applicant's arguments on page 15 of the instant remarks, applicant's amendments to the claims overcame the previously issued 35 U.S.C. 112, second paragraph rejections. However, the examiner has issued new 35 U.S.C. 112, first and second paragraph rejections, which are presented below.

Claim Objections

4. Claim 1 is objected to because of the following informalities: the claim makes mention of "**a second message specifying a user interface...**". However, a later limitation within the claim makes mention of "determining whether a third message comprising a specification of the parameter has been received from the data output device in response to the **third message specifying the user interface**". Appropriate correction is required. However, the examiner will

examine the claim and assume that the applicant meant a second message and not a third message.

5. Claims 20, 25, 27 and 29 are objected to because of the following informalities: the claims repeat the limitation of **“wherein the data is persisted at the data output device across trips between the data distribution device and the data output device”**. Appropriate correction is required. The examiner suggests removing one of the repeated limitations.

Claim Rejections - 35 USC § 112

6. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

7. Claims 1, 10, 20, 25, 27 and 29 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The claims disclose **“wherein the data distribution device maintains a state of the data output device so that data distribution device does not send duplicative data to the data output device”**. However, neither applicant's cited paragraph [0035] for support nor the specification makes mention that the data output device state is maintained by the data distribution device in order to **“not send duplicative data to the data output device”**. Appropriate clarification and/or correction is required.

Claim Rejections - 35 USC § 112

8. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

9. Claims 1, 10, 20, 25, 27 and 29 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See MPEP § 2172.01. The omitted steps are: why the data distribution device is maintaining the state of the output device and why does the data distribution device not want to send duplicative data to the data output device.

10. Claims 15 and 30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

11. With respect to claims 15 and 30 the claims disclose “wherein a first frame rendered on the data output device continually refreshes to obtain new data and the obtained new data is passed to one or more additional frames rendered on the data output device that require at least a portion of the obtained new data”. It is unclear what applicant’s are referring to as a frame, as a frame can be a GUI, a data link layer protocol data unit that contains frame serial number and frame information, as well as many other items. Appropriate clarification is required.

Claim Rejections - 35 USC § 102

12. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(c) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

13. **Claims 20, 23, 24, 25-27 and 28 are rejected under 35 U.S.C. 102(e) as being anticipated by Seshadri et al. (Patent No US 7,209,916 B1), hereinafter Seshadri.**

14. With respect to claim 20, Seshadri discloses a method performed at a data distribution device, (Column 6, lines 50-67; continued through to Column 7, lines 1-4), the method comprising:

determining whether a command to modify data conveyance rules is received (Column 2, lines 34-45), the data conveyance rules being identified using a user name for a user associated with the first message and/or a data output device identifier for the data output device (Column 9, lines 65-67, continued through to Column 10, lines 1-17), the data conveyance rules being used by the data distribution device to determine how, when, and under what conditions to send data to the data output device, the command being initiated by the data output device (Column 2, lines 9-19);

if the command to modify has been received, sending a message to the data distribution device indicating that the data conveyance rules are to be modified including identification data

contained within the message for specifying the data conveyance rules that are to be modified, the data conveyance rules pertaining to messages subsequently delivered to the data output device (Column 9, lines 65-67, continued through to Column 10, lines 1-17 and Column 1, lines 15-17; i.e. discloses that the present invention relates generally to computer systems (i.e. data output device));

determining if a message specifying a user interface corresponding to the rule template and a parameter associated with the data conveyance rules that are to be modified has been received from the data distribution device (Column 10, lines 18-36);

if the message specifying the user interface has been received, generating the specified user interface (Column 10, lines 32-39);

determining whether a command indicating specification of the parameter has been received via the generated user interface (Column 10, lines 50-67);

if the command specifying the parameter has been received (Column 16, lines 1-3; i.e. ...mail messages being received), sending a message comprising a specification of the parameter (Column 15, lines 65-67; i.e. the rule is applied to all mail messages whoever they are addressed to which are simply specifications of the parameter) to the data distribution device for modifying the data conveyance rules for subsequent data delivery by the data distribution device (Column 9, lines 65-67, continued through to Column 10, lines 1-17); wherein the data is persisted at the data output device across trips between the data distribution device and the data output device (Column 21, lines 9-24).

15. With respect to claims 23, 26 and 28, Seshadri discloses determining whether a message (Column 11, lines 42-45) specifying a user interface corresponding to a set of rule templates has been received (Column 10, lines 32-33);

if the message has been received, generating the user interface (Column 10, lines 32-39);

determining whether a command indicating that one of the templates in the set has been selected has been received (Column 9, lines 35-36; Column 9, lines 51-53; i.e. discloses that the determination is made upon the receipt of a triggering activity such as the receipt of an email, which causes the developer to fire the prior selected template.).

if the command has been received, sending a message indicating selection of one of the templates in the set (Column 9, lines 51-53; i.e. discloses that if email messages (i.e. commands) are received then instances of a rule template should fire which can be interpreted as sending a selected rule template).

16. With respect to claim 24, Seshadri discloses wherein the rule template comprises a rule template for one of the data conveyance rules (Column 9, lines 51-53).

17. With respect to claim 25, Seshadri discloses a system for managing data conveyance between a data distribution device and a data output device (Column 6, lines 50-67; continued through to Column 7, lines 1-4) comprising: a data output device (Column 6, lines 50-64; i.e. computer) comprising: a user input device operable to receive a user command (Column 6, lines 50-64); a user display device operable to present a user command (Column 6, lines 50-64; i.e. computer); a processor operable to perform (Column 6, lines 50-64) the steps of:

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determining whether a command to modify data conveyance rules is received (Column 2, lines 34-45), the data conveyance rules being used by the data distribution device to determine how, when, and under what conditions to send data to the data output device, the command being initiated by the data output device (Column 2, lines 9-19);

if the command to modify has been received, sending a message to the data distribution device indicating that the data conveyance rules are to be modified, such message including identification data for specifying the data conveyance rules that are to be modified, the identification data identifying an identifier of the data output device, the data conveyance rules pertaining to messages subsequently delivered to the data output device (Column 9, lines 65-67, continued through to Column 10, lines 1-17 and Column 1, lines 15-17; i.e. discloses that the present invention relates generally to computer systems (i.e. data output device));

determining if a message specifying a user interface corresponding to the rule template and a parameter associated with the data conveyance rules that are to be modified has been received from the data distribution device (Column 10, lines 18-36);

if the message specifying the user interface has been received, generating the specified user interface (Column 10, lines 32-39);

determining whether a command indicating specification of the parameter has been received via the generated user interface (Column 10, lines 50-67);

if the command specifying the parameter has been received (Column 16, lines 1-3; i.e. ...mail messages being received), generating and sending a message comprising a specification of the parameter (Column 15, lines 65-67; i.e. the rule is applied to all mail messages whoever they are addressed to which are simply specifications of the parameter) to the data distribution device for

modifying the data conveyance rules for subsequent data delivery by the data distribution device (Column 9, lines 65-67, continued through to Column 10, lines 1-17); wherein the data is persisted at the data output device across trips between the data distribution device and the data output device (Column 21, lines 9-24).

18. With respect to claim 27, Seshadri discloses a machine readable storage medium having instructions which when executed by a machine cause the machine to perform operations (Column 29, lines 48-51) of:

determining whether a command to modify data conveyance rules is received at a output device (Column 2, lines 34-45), the data conveyance rules being used by the data distribution device to determine how, when, and under what conditions to send data to the data output device, the command being initiated by the data output device (Column 2, lines 9-19);

if the command to modify has been received, sending a message to a data distribution device indicating that the data conveyance rules are to be modified, such message including identification data for specifying the data conveyance rules that are to be modified, the identification data identifying a user name for a user of the data output device, the data conveyance rules pertaining to messages subsequently delivered to the data output device (Column 9, lines 65-67, continued through to Column 10, lines 1-17 and Column 1, lines 15-17; i.e. discloses that the present invention relates generally to computer systems (i.e. data output device));

determining if a message specifying a user interface corresponding to the rule template and a parameter associated with the data conveyance rules that are to be modified has been received from the data distribution device (Column 10, lines 18-36);

if the message specifying the user interface has been received, generating the specified user interface (Column 10, lines 32-39);

determining whether a command indicating specification of the parameter has been received via the generated user interface (Column 10, lines 50-67);

if the command specifying the parameter has been received (Column 16, lines 1-3; i.e. ...mail messages being received), generating and sending a message comprising a specification of the parameter (Column 15, lines 65-67; i.e. the rule is applied to all mail messages whoever they are addressed to which are simply specifications of the parameter) to the data distribution device for modifying the data conveyance rules for subsequent data delivery by the data distribution device (Column 9, lines 65-67, continued through to Column 10, lines 1-17); wherein the data is persisted at the data output device across trips between the data distribution device and the data output device (Column 21, lines 9-24).

Claim Rejections - 35 USC § 103

19. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

20. Claims 1, 4-5, 7-9, 11, 14-16, 19-22 and 30-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Seshadri et al. (Patent No US 7,209,916 B1), hereinafter Seshadri, in view of Serrano-Morales et al. (Pub. No US 2002/0032688 A1), hereinafter Serrano-Morales.

21. With respect to claim 1, Seshadri discloses a method performed at a data distribution device (Column 6, lines 43-49), the method comprising:
determining whether a first message indicating that data conveyance rules are to be modified has been received from a data output device, (Column 2, lines 34-45 and Column 1, lines 15-17; i.e. discloses that the present invention relates generally to computer systems (i.e. data output device)), the data conveyance rules being identified using a user name for a user associated with the first message and/or a data output device identifier for the data output device (Column 9, lines 65-67, continued through to Column 10, lines 1-17), the data conveyance rules pertaining to messages delivered to the data output device subsequent to the first message, the data conveyance rules being used by the data distribution device to determine how, when, and under what conditions to send data to the data output device, the command being initiated by the data output device (Column 2, lines 9-19);
if the first message to modify has been received, identifying a rule template associated with the data conveyance rules (Column 9, lines 65-67, continued through to Column 10, lines 1-17), the identified rule template comprising at least one parameter (Column 9, lines 60-64);
sending, from the data distribution device to the data output device, a second message specifying a user interface corresponding to the rule template and the parameter associated with the data

conveyance rules that are to be modified (Column 9, lines 65-67, continued through to Column 10, lines 1-17 and Column 10, lines 32-36; i.e. interface application (user interface corresponding to the rule));

determining whether a third message comprising a specification of the parameter has been received from the data output device in response to the third message specifying the user interface (Column 15, lines 63-67 continued through Column 16, lines 1-3; i.e. the set of data that has to be matched against the mail messages being received is simply the set which is also the parameter that must be matched (i.e. determined) for all messages received and Column 10, lines 32-36; i.e. interface application (user interface corresponding to the rule)).

Seshadri does not disclose if the third message specifying the parameter has been received, creating a rule by binding the rule template with the specified parameter, the created rule thereafter forming part of the data conveyance rules.

However, Serrano-Morales discloses that if the third message specifying the parameter has been received, creating a rule by binding the rule template with the specified parameter, the created rule thereafter forming part of the data conveyance rules (Page 2; [0029], lines 1-5).

It would have been obvious to a person having ordinary skill in the art at the time of the invention to modify the teachings of Seshadri with the teachings of Serrano-Morales, in order to allow a user to implement received rules, rule changes and or instructions.

22. With respect to claim 4, 11 and 16, Seshadri discloses sending a message specifying a user interface corresponding to the set of rule templates (Column 10, lines 32-33); and determining whether a message indicating selection of one of the templates in the set has been received (Column 9, lines 35-36; Column 9, lines 51-53; i.e. discloses that the determination is made upon the receipt of a triggering activity such as the receipt of an email, which causes the developer to fire the prior selected template.).

Seshadri does not disclose identifying a set of rule templates associated with the data conveyance rules to be modified. However, Serrano-Morales discloses identifying a set of rule templates associated with the data conveyance rules to be modified (Page 1; [0009], lines 1-6).

23. With respect to claim 5, Seshadri discloses translating the rule into a rule engine format (Column 7, lines 35-42).

24. With respect to claim 7, Seshadri discloses determining whether a message comprising a subscription request has been received (Column 18; lines 34-40); if a subscription request has been received, identifying data conveyance rules associated with the subscription request (Column 19; lines 10-13); and sending data in accordance with the identified rules (Column 19, lines 52-54).

25. With respect to claim 8, Seshadri discloses wherein the identified rules are associated with a user of a data output device (Figure 18, item 1840; Column 5, lines 29-34).

26. With respect to claims 9, 14 and 19, Seshadri discloses parsing the rule to identify specifications for parameters of the template (Column 17, lines 9-12); and sending a message specifying a user interface corresponding to the associated template, the identified parameters, and the identified specifications (Column 10, lines 27-33).

Seshadri does not disclose associating one of the data conveyance rules with a rule template. However, Serrano-Morales discloses associating one of the data conveyance rules with a rule template (Page 1; [0009], lines 1-6).

27. With respect to claim 15, Seshadri discloses a machine readable storage medium having instructions which when executed by a machine cause the machine to perform operations (Column 29, lines 48-51) of:

determining whether a message sent by a data output device, (Column 2, lines 34-45 and Column 1, lines 15-17; i.e. discloses that the present invention relates generally to computer systems (i.e. data output device)), the data conveyance rules being identified using a user name for a user associated with the first message and/or a data output device identifier for the data output device (Column 9, lines 65-67, continued through to Column 10, lines 1-17), the data conveyance rules pertaining to messages delivered to the data output device subsequent to the first message (Column 9, lines 65-67, continued through to Column 10, lines 1-23), the data conveyance rules being used by the data distribution device to determine how, when, and under what conditions to send data to the data output device, the command being initiated by the data output device (Column 2, lines 9-19);

if the message to modify has been received, identifying, by the data distribution device, a rule template associated with the data conveyance rules, (Column 9, lines 65-67, continued through to Column 10, lines 1-17), the identified rule template comprising at least one parameter (Column 9, lines 60-64);

generating and sending, by the distribution device to the data output device, a message specifying a user interface corresponding to the rule template and the parameter associated with the data conveyance rules that are to be modified (Column 9, lines 65-67, continued through to Column 10, lines 1-17 and Column 10, lines 32-36; i.e. interface application (user interface corresponding to the rule));

determining, by the data distribution device, whether a message comprising a specification of the parameter has been received from the data output device (Column 15, lines 63-67 continued through Column 16, lines 1-3; i.e. the set of data that has to be matched against the mail messages being received is simply the set which is also the parameter that must be matched (i.e. determined) for all messages received and Column 10, lines 32-36; i.e. interface application (user interface corresponding to the rule)); wherein the data is persisted at the data output device across trips between the data distribution device and the data output device (Column 21, lines 9-24).

Seshadri does not disclose if the message specifying the parameter has been received, creating, by the data distribution device, a rule by binding the rule template with the specified parameter, the created rule thereafter forming part of the data conveyance rules.

However, Serrano-Morales discloses if the third message specifying the parameter has been received, creating, by the data distribution device, a rule by binding the rule template with the specified parameter, the created rule thereafter forming part of the data conveyance rules (Page 2; [0029], lines 1-5).

It would have been obvious to a person having ordinary skill in the art at the time of the invention to modify the teachings of Seshadri with the teachings of Serrano-Morales, in order to allow a user to implement received rules, rule changes and or instructions.

28. With respect to claim 18, Seshadri discloses a machine readable storage medium having instructions which when executed by a machine cause the machine to perform operations (Column 29, lines 48-51) of: determining whether a message comprising a subscription request has been received (Column 4, lines 59-62), if a subscription request has been received (Column 5, lines 25-27), identifying data conveyance rules associated with the subscription request (Column 5, lines 46-53), and sending data in accordance with the identified rules (Column 5, lines 46-56).

29. With respect to claim 30, Seshadri discloses wherein the data is persisted at the data output device across trips between the data distribution device and the data output device (Column 21, lines 9-24).

30. **Claims 2, 3, 10, 12, 17, 21, 22 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Seshadri, in view of Serrano-Morales and further in view of Abrari et al. (Pub. No US 2002/0120917 A1), hereinafter Abrari.**

31. With respect to claims 2 and 21, the combination of Seshadri and Serrano-Morales does not disclose wherein the user interface comprises a natural language description of a business function of a data conveyance rule created with the rule template.

However, Abrari discloses wherein the user interface comprises a natural language description of a business function of a data conveyance rule created with the rule template (Page 5, [0050], lines 1-9).

It would have been obvious to a person having ordinary skill in the art at the time of the invention to modify the combined teachings of Seshadri and Serrano-Morales with the teachings of Abrari, in order to define the business rules to users in plain and simple terms.

32. With respect to claims 3 and 22, the combination of Seshadri and Serrano-Morales does not disclose wherein the user interface comprises a natural language description of the parameters for the rule template.

However, Abrari discloses wherein the user interface comprises a natural language description of the parameters for the rule template (Page 5, [0050], lines 1-9).

33. With respect to claim 10, Seshadri discloses a system comprising: a data distribution device (Column 10, line 27; i.e. messaging server) comprising: memory operable to store (Column 27, line 25); and a processor (Column 6, lines 60-64; i.e. computer) operable to: the data conveyance rules being used by the data distribution device to determine how, when, and under what conditions to send data to the data output device, the command being initiated by the data output device (Column 2, lines 9-19), determine whether a first message indicating that data conveyance rules are to be modified has been received from a data output device, (Column 2, lines 34-45 and Column 1, lines 15-17; i.e. discloses that the present invention relates generally to computer systems (i.e. data output device)), the data conveyance rules being identified using a user name for a user associated with the first message and/or a data output device identifier for the data output device (Column 9, lines 65-67, continued through to Column 10, lines 1-17), the data conveyance rules pertaining to messages delivered to the data output device subsequent to the first message (Column 9, lines 65-67, continued through to Column 10, lines 1-23); if the first message to modify has been received, identify a rule template associated with the set (Column 9, lines 65-67, continued through to Column 10, lines 1-17), the identified rule template comprising at least one parameter (Column 9, lines 60-64); generate and send, from the data distribution device to the data output device, a second message specifying a user interface corresponding to the rule template and the parameter associated with the data conveyance rules that are to be modified (Column 9, lines 65-67, continued through to Column 10, lines 1-17 and Column 10, lines 32-36; i.e. interface application (user interface corresponding to the rule));

determine whether a third message comprising a specification of the parameter has been received from the data output device, (Column 15, lines 63-67 continued through Column 16, lines 1-3; i.e. the set of data that has to be matched against the mail messages being received is simply the set which is also the parameter that must be matched (i.e. determined) for all messages received and Column 10, lines 32-36; i.e. interface application (user interface corresponding to the rule)); wherein the data is persisted at the data output device across trips between the data distribution device and the data output device (Column 21, lines 9-24).

Seshadri does not disclose a repository comprising data conveyance rules and rule templates associated with the data conveyance rules and if the message has been received; creating a rule by binding the rule template with the specified parameter, the created rule thereafter forming part of the data conveyance rules.

However, Serrano-Morales discloses a repository comprising data conveyance rules and rule templates associated with the data conveyance rules (Page 2; [0024], lines 11-14; [0025], lines 1-8; Figure 1A, item 108) and that if the message has been received, creating a rule by binding the rule template with the specified parameter, the created rule thereafter forming part of the data conveyance rules (Page 2; [0029], lines 1-5).

It would have been obvious to a person having ordinary skill in the art at the time of the invention to modify the teachings of Seshadri with the teachings of Serrano-Morales, in order to

allow a user to implement received rules, rule changes and or instructions, quickly by implementing them from a rule database.

The combination of Seshadri and Serrano-Morales does not disclose a rule editor for modifying the data conveyance rules and the rule templates. However, Abrari discloses a rule editor for modifying the data conveyance rules and the rule templates (Page 4; [0047], lines 1-2; Figure 1, item 182).

It would have been obvious to a person having ordinary skill in the art at the time of the invention to modify the combined teachings of Seshadri and Serrano-Morales with the teachings of Abrari, in order to speed the implementation of new rules by allowing a user to create rules and make rule changes.

34. With respect to claim 12, it is rejected for the same reasons as claim 10 above. In addition Abrari discloses wherein: the memory is further operable to store a rule translator (Page 3; [0038], lines 1-10; i.e. discloses a business intelligence server that manages rule components, such as a rule translator; all servers include memory for storing data, as clearly disclosed by Abrari); and the processor is further operable to translate the rule into a rule engine format (Page 3; [0038], lines 3-10).

35. With respect to claim 17, Seshadri discloses a machine readable storage medium having instructions which when executed by a machine cause the machine to perform operations (Column 29, lines 48-51).

Neither Seshadri, nor Serrano-Morales discloses translating the rule into a rule engine format.

However, Abrari discloses translating the rule into a rule engine format (Page 3; [0038], lines 3-10).

36. With respect to claim 29, Seshadri discloses a system comprising: a data output device; and a data distribution device (Column 6, lines 64-67; continued through to Column 7, lines 1-4; i.e. platform server reads on data output device and data distribution device) the data output operable to:

determine whether a command indicating that data conveyance rules are to be modified has been received from the data distribution device (Column 2, lines 34-45), the data conveyance rules being used by the data distribution device to determine how, when, and under what conditions to send data to the data output device, the command being initiated by the data output device (Column 2, lines 9-19);

if the command has been received, send a message to the data distribution device indicating that data conveyance rules are to be modified, the message including identification data identifying a user of the data output device, the data distribution device associating the user with a set of rule templates (Column 9, lines 65-67, continued through to Column 10, lines 1-17 and Column 1,

lines 15-17; i.e. discloses that the present invention relates generally to computer systems (i.e. data distribution device));

determine if a message specifying a user interface corresponding to the set of rule templates has been received from the data distribution device (Column 10, lines 18-36),

if the message has been received, generate the user interface (Column 10, lines 32-39),

determine whether a command indicating that one of the templates in the set has been selected has been received (Column 9, lines 35-36; Column 9, lines 51-53; i.e. discloses that the determination is made upon the receipt of a triggering activity such as the receipt of an email, which causes the developer to fire the prior selected template.),

if the command has been received, send a message to the data distribution device indicating selection of one of the templates in the set (Column 10, lines 32-33),

determine if a message specifying a user interface corresponding to the selected rule template and a parameter of the selected rule template has been received from the distribution device (Column 10, lines 18-36), if the message has been received, generate the user interface (Column 10, lines 32-39), determine whether a command indicating specification of the parameter has been received (Column 15, lines 63-67 continued through Column 16, lines 1-3; i.e. the set of data that has to be matched against the mail messages being received is simply the set which is also the parameter that must be matched (i.e. determined) for all messages received), and

if the command has been received (Column 16, lines 1-3; i.e. ...mail messages being received), send a message comprising a specification of the parameter to the data distribution device (Column 15, lines 65-67; i.e. the rule is applied to all mail messages whoever they are addressed to which are simply specifications of the parameter); and a data distribution device operable to:

determine whether the message indicating that data conveyance rules are to be modified has been received from a data output device, (Column 2, lines 34-45 and Column 1, lines 15-17; i.e. discloses that the present invention relates generally to computer systems (i.e. data output device)) the data conveyance rules pertaining to messages delivered to the data output device other than the first message (Column 9, lines 65-67, continued through to Column 10, lines 1-23), if the message to modify has been received (Column 9, lines 65-67, continued through to Column 10, lines 1-17), send the message specifying a user interface corresponding to a set of rule templates to the data output device (Column 10, lines 32-33), determine whether the message indicating selection of one of the templates in the set has been received from the data output device (Column 9, lines 35-36; Column 9, lines 51-53; i.e. discloses that the determination is made upon the receipt of a triggering activity such as the receipt of an email, which causes the developer to fire the prior selected template.), identify a parameter for the selected template (Column 10, lines 32-33), send the message specifying a user interface corresponding to the selected rule template and a parameter of the selected rule template to the data output device (Column 10, lines 32-33), determine whether the message comprising a specification of the parameter has been received (Column 15, lines 63-67 continued through Column 16, lines 1-3; i.e. the set of data that has to be matched against the mail messages being received is simply the set which is also the parameter that must be matched (i.e. determined) for all messages received), translate the rule into a rule engine format (Column 7, lines 35-42), determine whether a message comprising a subscription request has been received from the data output device (Column 4, lines 59-62), if a subscription request has been received (Column 5, lines 25-27), identify data conveyance rules associated with the subscription request (Column 5, lines 46-53), and send data

in accordance with the identified rules to the data output device (Column 5, lines 46-56); wherein the data is persisted at the data output device across trips between the data distribution device and the data output device (Column 21, lines 9-24).

Seshadri does not disclose if the message has been received, identify a set of rule templates associated with the data conveyance rules to be modified, if the message has been received, create a rule by binding the rule template with the specified parameter, the created rule thereafter forming part of the data conveyance rules.

However, Serrano-Morales discloses if the message has been received, identify a set of rule templates associated with the data conveyance rules to be modified (Page 1; [0009], lines 1-6) and if the message has been received, create a rule by binding the rule template with the specified parameter, the created rule thereafter forming part of the data conveyance rules (Page 2; [0029], lines 1-5).

It would have been obvious to a person having ordinary skill in the art at the time of the invention to modify the teachings of Seshadri with the teachings of Serrano-Morales, in order to allow a user to implement received rules, rule changes and or instructions.

The combination of Seshadri and Serrano-Morales does not disclose the user interface comprising natural language descriptions of business functions of data conveyance rules created with the templates, the user interface comprising a natural language description of the parameter.

However Abrari discloses the user interface comprising natural language descriptions of business functions of data conveyance rules created with the templates (Page 5, [0050], lines 1-9), the user interface comprising a natural language description of the parameter (Page 5, [0050], lines 1-9; i.e. once a natural language interface is created it obvious to make the parameters to the interface natural language as well).

37. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Seshadri, in view of Serrano-Morales and further in view of Carlson et al. (Pub. No US 2003/0046282 A1), hereinafter Carlson.

38. With respect to claim 6, the combination of Seshadri and Serrano-Morales does not disclose wherein the rule engine format comprises Jrules.

However, Carlson discloses wherein the rule engine format comprises Jrules (Page 12; [0110], lines 9-11).

It would have been obvious to a person having ordinary skill in the art at the time of the invention to modify the combined teachings of Seshadri and Serrano-Morales with the teachings of Carlson in order to dynamically define and modify mapping rules to customize the mapping process.

39. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Seshadri, in view of Abrari.

40. With respect to claim 13, the claim is rejected for the same reasons as claim 10 above. In Addition Seshadri discloses the processor is further operable to: determine whether a message comprising a subscription request has been received (Column 4, lines 59-62), if a subscription request has been received (Column 5, lines 25-27), identify data conveyance rules associated with the subscription request (Column 5, lines 46-53), and send data in accordance with the identified rules (Column 5, lines 46-56).

Seshadri does not disclose wherein: the memory is further operable to store a rule engine. However Abrari discloses wherein: the memory is further operable to store a rule engine (Page 3; [0038], lines 1-10; i.e. discloses a business intelligence server that manages rule components, such as a rule translator; all servers include memory for storing data, as clearly disclosed by Abrari).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARSHALL MCLEOD whose telephone number is (571)270-3808. The examiner can normally be reached on Monday - Thursday 6:30 a.m-4:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (571) 272-4001. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Examiner, Art Unit 2457
7/22/2010

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